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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 25	CA/CAPLUS - Russian Agency for Patents and Trademarks (ROSPATENT) added to list of core patent offices covered
NEWS	4	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	5	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	6	FEB 28	MEDLINE/LMEDLINE reloaded
NEWS	7	MAR 02	GBFULL: New full-text patent database on STN
NEWS	8	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	9	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	10	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	11	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	12	MAR 22	PATDPASPC - New patent database available
NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
NEWS	16	APR 18	New CAS Information Use Policies available online
NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS	19	MAY 23	GBFULL enhanced with patent drawing images
NEWS	20	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	21	MAY 26	STN User Update to be held June 6 and June 7 at the SLA 2005 Annual Conference
NEWS	22	JUN 06	STN Patent Forums to be held in June 2005
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=> file reg

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FULL ESTIMATED COST	0.21	0.21

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\*  
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\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.43	0.64

FILE 'CAPLUS' ENTERED AT 07:25:16 ON 10 JUN 2005

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FILE COVERS 1907 - 10 Jun 2005 VOL 142 ISS 25  
FILE LAST UPDATED: 9 Jun 2005 (20050609/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> solid liquid

963770 SOLID  
273646 SOLIDS  
1165923 SOLID  
(SOLID OR SOLIDS)  
684284 LIQUID  
122774 LIQUIDS  
777118 LIQUID  
(LIQUID OR LIQUIDS)  
953591 LIQ  
90892 LIQS  
988991 LIQ  
(LIQ OR LIQS)  
1369240 LIQUID  
(LIQUID OR LIQ)  
L1 27615 SOLID LIQUID  
(SOLID(W) LIQUID)

=> liquid solid

684284 LIQUID  
122774 LIQUIDS  
777118 LIQUID  
(LIQUID OR LIQUIDS)  
953591 LIQ  
90892 LIQS  
988991 LIQ  
(LIQ OR LIQS)  
1369240 LIQUID  
(LIQUID OR LIQ)  
963770 SOLID  
273646 SOLIDS  
1165923 SOLID  
(SOLID OR SOLIDS)  
L2 20709 LIQUID SOLID  
(LIQUID(W) SOLID)

=> l1 or l2

L3 43992 L1 OR L2

=> reaction

2806844 REACTION  
2025116 REACTIONS  
L4 3753322 REACTION  
(REACTION OR REACTIONS)

=> l3(l)l4

L5 4694 L3(L) L4

=> ether or ester

461819 ETHER  
141927 ETHERS  
520226 ETHER  
(ETHER OR ETHERS)  
562068 ESTER  
419051 ESTERS  
784851 ESTER  
(ESTER OR ESTERS)

L6 1199985 ETHER OR ESTER

=> acid anhydride

3987175 ACID  
1478723 ACIDS  
4465898 ACID  
(ACID OR ACIDS)  
196206 ANHYDRIDE  
31405 ANHYDRIDES  
206289 ANHYDRIDE  
(ANHYDRIDE OR ANHYDRIDES)  
L7 24236 ACID ANHYDRIDE  
(ACID(W) ANHYDRIDE)

=> 16 or 17

L8 1214708 L6 OR L7  
75% OF LIMIT FOR TOTAL ANSWERS REACHED

=> 18 and 15

L9 323 L8 AND L5

=> 1891)15

UNMATCHED RIGHT PARENTHESIS 'L89L)15'

The number of right parentheses in a query must be equal to the number of left parentheses.

=> 18(1)15

L10 215 L8(L)L5

=> salt

739656 SALT  
575425 SALTS  
L11 1102160 SALT  
(SALT OR SALTS)

=>

=> 110 and 111

L12 52 L10 AND L11

=> d 112 42-52 ti

L12 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Quaternary ammonium **salts** as catalysts in nucleophilic substitution reactions in a solid-liquid-two phase system

L12 ANSWER 43 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Detergents with nonseparating peroxide **salts**

L12 ANSWER 44 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Condensation of esters by branched organomagnesium compounds. XIV. Physicochemical investigation of an intermediate obtained during the synthesis of  $\beta$ -hydroxy esters by a magnesium complex of tert-butyl acetate

L12 ANSWER 45 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Fibrous or porous textile material from oriented organic polymers

L12 ANSWER 46 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Effect of solid phase on foam stability

L12 ANSWER 47 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI The insecticidal principles of Haplophyton cimicidum. I. Haplophytine

L12 ANSWER 48 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Oxazoles and oxazolones

L12 ANSWER 49 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Strychnine alkaloids. XXXIII. Degradation of quaternary **salts** of vomicine and desoxyvomicine

L12 ANSWER 50 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Cyclizing polymerization of acetylene. I. Cyclo-octatetraene

L12 ANSWER 51 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Systems with recurrent fusion curves. I

L12 ANSWER 52 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI The constitution of nitrogen tetroxide and the products that it forms with limited amounts of water

=> d 112 42 ti fbib abs

L12 ANSWER 42 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Quaternary ammonium **salts** as catalysts in nucleophilic substitution reactions in a solid-liquid-two phase system  
 AN 1978:66293 CAPLUS  
 DN 88:66293  
 TI Quaternary ammonium **salts** as catalysts in nucleophilic substitution reactions in a solid-liquid-two phase system  
 AU Jonczyk, Andrzej; Ludwikow, Maria; Makosza, Mieczyslaw  
 CS Inst. Org. Chem. Technol., Tech. Univ. Warsaw, Warsaw, Pol.  
 SO Angewandte Chemie (1978), 90(1), 58  
 CODEN: ANCEAD; ISSN: 0044-8249  
 DT Journal  
 LA German  
 AB Aliquot 336 (tech. methyltriocetylammmonium chloride) was used as a catalyst in the **solid-liquid** nucleophilic substitution **reaction** of K and Na **salts** with alkyl halides and methanesulfonate **esters** in organic solvents (MeCN and CH<sub>2</sub>Cl<sub>2</sub>).

=> d 112 31-41 ti

L12 ANSWER 31 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Substitution and elimination reactions of poly(epichlorohydrin) and poly(2-chloroethyl vinyl ether) using phase transfer catalysis

L12 ANSWER 32 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Poly(oxyalkylene) ethers

L12 ANSWER 33 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Substitution reaction of poly((chloromethyl)styrene) with **salts** of various nucleophilic reagents using phase-transfer catalysts

L12 ANSWER 34 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Substitution reaction of poly(chloromethylstyrene) with some nucleophilic reagents using triphase transfer catalysis

L12 ANSWER 35 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Substitution reactions of poly[2-(2-chloro-5-nitrobenzoyloxy)ethyl methacrylate] and poly[2-(4-chloro-3-nitrobenzoyloxy)ethyl methacrylate] with some nucleophilic reagents using phase transfer catalysis

L12 ANSWER 36 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Esterification reaction of poly[(chloromethyl)styrene] with **salts** of carboxylic acid using phase-transfer catalysts

L12 ANSWER 37 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Solid cationic polymers

L12 ANSWER 38 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Chemistry of crown ethers. XVII. Triphase catalysis by immobilized benzo-18-crown-6

L12 ANSWER 39 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Comparison between the role of water and that of a crown **ether** in the context of the Wittig **reaction** in **liquid-solid** heterogeneous media

L12 ANSWER 40 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Stereoselective synthesis of optically active dictyopterenes A and B and their geometrical isomers

L12 ANSWER 41 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Enantioselective ester synthesis in the presence of optically active polymers

=> d l12 20-30 ti

L12 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Michael **reaction** of chloro **esters** in a two-phase **solid-liquid** system

L12 ANSWER 21 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synthesis of crosslinked macrocyclic polyethers with pendant quaternary ammonium **salt**

L12 ANSWER 22 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synthesis of natural esters of substituted cinnamic acids

L12 ANSWER 23 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Polymer supported phase-transfer catalysis and catalysts

L12 ANSWER 24 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Palladium-catalyzed desulfonylative coupling of arylsulfonyl chlorides with acrylate esters under solid-liquid phase-transfer conditions

L12 ANSWER 25 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Intensification of heterogeneous reactions through hydrotropy: alkaline hydrolysis of esters and oximation of cyclododecanone

L12 ANSWER 26 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Asymmetric induction under two-phase conditions. (I). Asymmetric induction in the Gabriel reaction by using two-phase system - synthesis of optically active amino acids

L12 ANSWER 27 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Iminocarbonic acid alkyl ester dialkylamides

L12 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy cyclohexanol

L12 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Two-phase reaction of 1-bromooctane with sodium acetate and potassium acetate catalyzed by bisquaternary ammonium salts

L12 ANSWER 30 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Functionalized ethylene oligomers as phase-transfer catalysts

=> d 112 20,28,29 ti fbib abs

L12 ANSWER 20 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Michael reaction of chloro esters in a two-phase solid-liquid system

AN 1992:173586 CAPLUS

DN 116:173586

TI Michael reaction of chloro esters in a two-phase solid-liquid system

AU Yan, Chaoguo; Kong, Qiangzhi; Lu, Wenxing; Wu, Jitao

CS Dep. Chem., Yangzhou Teach. Coll., Jiangsu, 225002, Peop. Rep. China

SO Chinese Chemical Letters (1991), 2(10), 753-4

CODEN: CCLEE7; ISSN: 1001-8417

DT Journal

LA English

OS CASREACT 116:173586

AB The Michael addition of  $\alpha$ -chloro esters to  $\alpha,\beta$ -unsatd. systems was catalyzed by tetraalkylammonium salts in a two-phase solid-liquid system, and some polysubstituted cyclopropanes were easily prepared. Thus, Michael reaction of  $\text{ClCH}_2\text{CO}_2\text{Et}$  with  $\text{CH}_2=\text{CHCO}_2\text{Et}$  in the presence of  $\text{PhCH}_2\text{NEt}_3\text{Cl}$  as phase-transfer catalyst in DMF as solvent and  $\text{K}_2\text{CO}_3$  gave 66% di-Et cyclopropane-1,2-dicarboxylate.

L12 ANSWER 28 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy cyclohexanol

AN 1986:442606 CAPLUS

DN 105:42606

TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy cyclohexanol

AU Depreux, P.; Marcincal-Lefebvre, A.

CS Lab. Chim. Org., Fac. Pharm. Lille, Lille, 59045, Fr.

SO Canadian Journal of Chemistry (1986), 64(3), 626-32

CODEN: CJCHAG; ISSN: 0008-4042

DT Journal

LA French

OS CASREACT 105:42606

AB Amino ethers of trans-2-phenoxy cyclohexanol were prepared by methods involving anhydrous conditions (sodium alkoxides in xylene) or phase transfer catalysis (PTC) conditions (liquid-liquid or solid-liquid two-phase systems). In the liquid-liquid two-phase system, when no catalyst was added, the reaction proceeds with comparable or even better yields than with some PTC catalysts, a quaternary salt being formed in situ. The deprotonation of the alc. takes place at the interface, since there was no  $\text{OH}^-$  extraction in organic medium and the yield depends on the stirring speed. In the presence of aliquat, the yield does not change with the organic concentration of the catalyst. Statistical correlations

obtained between the variations in yield and several other parameters were good.

L12 ANSWER 29 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Two-phase reaction of 1-bromooctane with sodium acetate and potassium acetate catalyzed by bisquaternary ammonium **salts**  
AN 1986:68420 CAPLUS  
DN 104:68420  
TI Two-phase reaction of 1-bromooctane with sodium acetate and potassium acetate catalyzed by bisquaternary ammonium **salts**  
AU Schiefer, H.; Beger, J.; Lorenz, U.  
CS Sekt. Chem., Bergakad. Freiberg, DDR-9200, Ger. Dem. Rep.  
SO Journal fuer Praktische Chemie (Leipzig) (1985), 327(3), 383-98  
CODEN: JPCEAO; ISSN: 0021-8383  
DT Journal  
LA German  
OS CASREACT 104:68420  
AB trans-R<sub>2</sub>N+R<sub>1</sub>CH<sub>2</sub>CH:CHCH<sub>2</sub>N+R<sub>2</sub>R<sub>1</sub> 2X<sup>-</sup> (I, R = Me, Et, Bu; R<sub>1</sub> = Bu, octyl, dodecyl, hexadecyl, PhCH<sub>2</sub>; X = Cl, Br) (diquats) were prepared either from trans-R<sub>2</sub>NCH<sub>2</sub>CH:CHCH<sub>2</sub>NR<sub>2</sub> and R<sub>1</sub>X or from trans-1,4-dibromo-2-butene and R<sub>2</sub>NR<sub>1</sub>. The **reaction** of Me(CH<sub>2</sub>)<sub>7</sub>Br with NaOAc or KOAc in the liquid-liquid 2-phase system without addnl. solvent was catalyzed more effectively by the unsatd. diquats than by saturated diquats and monoquats. Most of the quats catalyze **ester** formation from NaOAc more effectively in the liquid-liquid system, but **ester** formation from KOAc more effectively in the **solid-liquid** system. KOAc was generally better than NaOAc in both systems.

=> d 112 9-19 ti

L12 ANSWER 9 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Combustion of ammonium nitrate-based compositions. Part 1. Mixtures of ammonium nitrate with catalysts and high explosives

L12 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of diaminodiphenyl ethers from aminophenols and chloronitrobenzenes

L12 ANSWER 11 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Chromatographic optical resolution of racemic amines and amino acids by (1→6)-2,5-anhydro-3,4-di-O-methyl-D-glucitol bound on silica gel

L12 ANSWER 12 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Novel microporous solid "superacids": CsxH<sub>3</sub>-xPW<sub>12</sub>O<sub>40</sub> (2 ≤ x ≤ 3)

L12 ANSWER 13 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Cyclophosphazenic polypodands as powerful cation complexing agents, efficient phase-transfer catalysts and anion activators

L12 ANSWER 14 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Chromatographic optical resolution of racemic amine and amino acid **salts** by (1→6)-2,5-anhydro-3,4-di-o-methyl-D-glucitol bound on silica gel.

L12 ANSWER 15 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Crown **ether** catalyzed stereospecific synthesis of Z- and E-stilbenes by Wittig **reaction** in a **solid-liquid** two-phases system

L12 ANSWER 16 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Synergism and antagonism in phase-transfer catalysis



L12 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of 2-(methylthio)-6-alkylphenyl ethers as intermediates for herbicides

L12 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Synergism in liquid/solid phase-transfer catalysis

L12 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of perbenzyl carbohydrate derivatives

=> d 112 10,17-19 ti fbib abs

L12 ANSWER 10 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of diaminodiphenyl ethers from aminophenols and chloronitrobenzenes

AN 1997:618713 CAPLUS

DN 127:262519

TI Preparation of diaminodiphenyl ethers from aminophenols and chloronitrobenzenes

IN Horiuchi, Hiroshi; Shono, Hisashi; Hasegawa, Hideo

PA Teijin Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 3 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 09241225	A2	19970916	JP 1996-49867	19960307
				JP 1996-49867	19960307

AB Diaminodiphenyl **ethers** are prepared by condensation of aminophenols with chloronitrobenzenes in the presence of basic K compds. in DMF, removing resulting K **salts** from the **reaction** mixts. by **solid-liquid** separation, contacting the solns. with inorg. adsorbents to reduce solubilized K into  $\leq 10$  ppm (by weight), catalytic hydrogenation of the solns. in the presence of catalysts, and recovering the catalysts and DMF for recycling. M-aminophenol was refluxed with p-chloronitrobenzene and  $K_2CO_3$  in DMF for 6 h, filtered, the filtrate treated with activated alumina at  $25^\circ$  for 2 h, filtered, and the filtrate was hydrogenated over Pd/C. The catalyst was recovered and repeatedly used in the same **reaction** 10 times in total without forming sticky Pd/C.

L12 ANSWER 17 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Preparation of 2-(methylthio)-6-alkylphenyl ethers as intermediates for herbicides

AN 1995:986658 CAPLUS

DN 124:116854

TI Preparation of 2-(methylthio)-6-alkylphenyl ethers as intermediates for herbicides

IN Inoe, Tsutomu; Yamaguchi, Masao; Takahashi, Atsushi

PA Nippon Soda Co, Japan

SO Jpn. Kokai Tokkyo Koho, 4 pp.

CODEN: JKXXAF

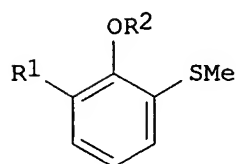
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 07247267	A2	19950926	JP 1994-66651	19940310
				JP 1994-66651	19940310

OS CASREACT 124:116854; MARPAT 124:116854  
GI



I

AB The title compds. I (R1 = alkyl; R2 = alkyl, aralkyl) (II), useful as intermediates for drugs and agrochems, especially for herbicides, are prepared by solid-liquid treatment of I (R1 is the same as in II; R2 = H) (III) with R2X (R2 = alkyl, aralkyl) or R22SO4 (R2 = lower alkyl) in the presence of bases and quaternary ammonium salts. A toluene solution of 8.62 g III (R1 = Me) (preparation given) was treated with an aqueous NaOH solution under azeotropic dehydration and the obtained crystal was treated with Bu4N+ Br- and Me2SO4 under stirring at room temperature for 3 h to give 6.60 g II (R1 = R2 = Me).

L12 ANSWER 18 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synergism in liquid/solid phase-transfer catalysis

AN 1995:622252 CAPLUS

DN 123:198191

TI Synergism in liquid/solid phase-transfer catalysis

AU Savyolova, Vera A.; Vakhitova, Lyubov N.; Magasinski, Aleksandr N.; Rybak, Vladimira V.; Panchenko, Boris V.

CS L. M. Litvinenko Inst. Phys. Org. Coal Chem., Natl. Acad. Sci. Ukraine, Donetsk, 340114, Ukraine

SO Mendeleev Communications (1995), (3), 123-4

CODEN: MENCEX; ISSN: 0959-9436

PB Russian Academy of Sciences

DT Journal

LA English

AB Powerful synergism in the hydrolysis reaction of p-nitrophenyl acetate in a liquid/solid system in the presence of the catalytic couple quaternary onium salt/crown ether has been detected.

L12 ANSWER 19 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Preparation of perbenzyl carbohydrate derivatives

AN 1994:54883 CAPLUS

DN 120:54883

TI Preparation of perbenzyl carbohydrate derivatives

IN Szeja, Wieslaw; Gryniewicz, Grzegorz; Bieg, Tadeusz; Bogusiak, Jadwiga; Fokt, Izabela; Konopka, Mirosława

PA Instytut Przemysłu Farmaceutycznego, Pol.

SO Pol., 9 pp. Abstracted and indexed from the unexamined application.

CODEN: POXXA7

DT Patent

LA Polish

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	---	-----	-----	-----
PI	PL 158083	B1	19920731	PL 1988-273529	19880705
				PL 1988-273529	19880705

OS CASREACT 120:54883

AB Carbohydrate derivs. are prepared by alkylation with benzyl halides such that the **reaction** is carried out in a two-phase liquid-liquid or **liquid-solid** system in which one phase consists of an inorg. base, preferably an alkali metal hydroxide possibly mixed with an alkali metal carbonate in the solid state or as an aqueous solution, especially a 1:4 mixture of solid sodium hydroxide and anhydrous potassium carbonate, with a small excess of benzyl halide, preferably benzyl chloride, in the presence of a tertiary amine or quaternary ammonium **salt**, preferably tetra-n-butylammonium hydrogen sulfate and also in the presence of a tertiary alc., especially tert-Bu or tert-amyl alcs., in an aromatic hydrocarbon medium, especially benzene or toluene, or in a halogenated aliphatic hydrocarbon, preferably methylene chloride or ethylene dichloride, or in an **ether**, preferably di-Et or di-Bu **ethers**, THF, or dioxane, or in a mixture of these solvents, possibly with added dipolar aprotic solvent, such as DMSO; after the **reaction** the benzylation product is isolated by known methods. Thus, alkylation of 1,2-O-isopropylidene- $\alpha$ -D-glucofuranose with PhCH<sub>2</sub>Cl in C<sub>6</sub>H<sub>6</sub> containing tert-amyl alc., Bu<sub>4</sub>NHSO<sub>4</sub>, and 50% aqueous NaOH gave 81% 3,5,6-tri-O-benzyl-1,2-O-isopropylidene- $\alpha$ -D-glucofuranose.

=> d 112 1-8 ti

L12 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Novelties of solid-liquid phase transfer catalyzed synthesis of o-nitrodiphenyl ether

L12 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Solvent-free reactions as green chemistry procedures for the synthesis of cosmetic fatty esters

L12 ANSWER 3 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Synthesis of novel amphiphilic pyridinylboronic acids

L12 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Phase-transfer catalyzed etherification for synthesizing allyl phenyl ether in solid-liquid-liquid system

L12 ANSWER 5 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Phase-transfer catalysis in oxidation of cyclohexene with potassium permanganate. II. Phase-transfer catalytic processes

L12 ANSWER 6 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Catalysis by porous heteropoly compounds

L12 ANSWER 7 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Onium **salts** and crown compounds in phase transfer catalysis

L12 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Kinetics of etherification of ethyl 2-bromoisobutyrate via solid/liquid phase transfer catalysis

=> d 112 1,2,4,8 ti fbib abs

L12 ANSWER 1 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Novelties of solid-liquid phase transfer catalyzed synthesis of o-nitrodiphenyl ether

AN 2003:1012986 CAPLUS

DN 141:140051

TI Novelties of solid-liquid phase transfer catalyzed synthesis of  
o-nitrodiphenyl ether  
AU Yadav, Ganapati D.; Subramanian, S.  
CS University Institute of Chemical Technology, Department of Chemical  
Engineering, University of Mumbai, Mumbai, 400019, India  
SO Journal of Molecular Catalysis A: Chemical (2004), 209(1-2), 75-82  
CODEN: JMCCF2; ISSN: 1381-1169  
PB Elsevier Science B.V.  
DT Journal  
LA English

AB O-Nitrodiphenyl **ether** is an important intermediate in the fine  
chemical industry and used in a number of drugs. This **ether** is  
typically prepared from o-chloronitrobenzene (OCNB) by condensing with  
alkali metal phenoxides in toluene or xylene in presence of copper or  
cuprous chloride and the process requires a high temperature to initiate the  
formation of cuprous **salt** of phenol. Once initiated the  
**reaction** is exothermic and can sometimes become uncontrolled  
leading to the formation of tarry masses. In the current work synthesis  
of o-nitrodiphenyl **ether** was accomplished by reacting  
o-chloronitrobenzene with solid potassium phenoxide using  
tetra-n-butylphosphonium bromide as a catalyst under **solid-  
liquid** phase transfer catalysis (S-L PTC). The advantages of S-L  
PTC are that the **reaction** is conducted at controllable temps.,  
the rates of **reaction** are increased by orders of magnitude and  
the **reaction** is 100% selective, in comparison with the liquid-liquid  
(L-L) PTC which is very slow and produces byproducts. The mechanism based  
on homogeneous solubilization of solid resulting in the formation of an  
active ion-pair with the nucleophile was found to prevail in the system.  
A complete theor. anal. is done to determine both the rate constant and  
equilibrium  
constant from the same set of data. The **reaction** is intrinsically  
kinetically controlled.

RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Solvent-free reactions as green chemistry procedures for the synthesis of  
cosmetic fatty esters

AN 2003:785394 CAPLUS

DN 141:93955

TI Solvent-free reactions as green chemistry procedures for the synthesis of  
cosmetic fatty esters

AU Villa, C.; Mariani, E.; Loupy, A.; Grippo, C.; Grossi, G. C.; Bargagna, A.

CS Dipartimento di Scienze, Farmaceutiche dell'Universita, Genoa, Italy

SO Green Chemistry (2003), 5(5), 623-626

CODEN: GRCHFJ; ISSN: 1463-9262

PB Royal Society of Chemistry

DT Journal

LA English

AB **Solid-liquid** solvent-free phase transfer catalysis (PTC)  
and acidic catalysis in dry media were applied, as green chemical procedures,  
to the synthesis under mild conditions of long chain aliphatic **esters**  
of interest in the cosmetic field. The **reactions** were performed  
under conventional heating and microwave activation, analyzing the  
profiles of the temperature increases during the **reactions** and  
studying the yields at different **reaction** times. The selected  
**esters** were obtained with very good yields within short  
**reaction** times. Using Aliquat 336 as phase transfer agent, the  
results showed lower yields under classical heating for very short  
**reaction** times (5 min), but usually comparable to the yields  
obtained under microwave heating extending the **reaction** time up  
to 15 min. The simple heterogeneous mixture of reagents with catalytic amount  
of neat p-toluenesulfonic acid (PTSA) under classical heating leads to

good results, similar to those obtained under microwave activation with regards to yields and **reaction** times (10 min for microwave activation/15 min for oil bath).

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 4 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Phase-transfer catalyzed etherification for synthesizing allyl phenyl ether in solid-liquid-liquid system

AN 2002:874993 CAPLUS

DN 138:305745

TI Phase-transfer catalyzed etherification for synthesizing allyl phenyl ether in solid-liquid-liquid system

AU Yang, Hung-Ming; Li, Chih-Ch'ing

CS Department of Chemical Engineering, National Chung Hsing University, Taichung, Taiwan, 402, Peop. Rep. China

SO Shiyu Jikan (2002), 38(3), 27-37

CODEN: SYCKE4; ISSN: 1022-9671

PB Chinese Petroleum Institute

DT Journal

LA Chinese

OS CASREACT 138:305745

AB The kinetics of **solid-liquid-liquid** phase-transfer catalyzed etherification for synthesizing specialty chemical, allyl Ph **ether**, in a stirred batch reactor was investigated in the present study. The solid catalysts were prepared from immobilizing different alkyl amines as the active sites onto macroporous or microporous polystyrene copolymer beads. The product yield of the etherification of sodium phenoxide with allyl bromide was achieved above 75% within 2 h at 60° over the immobilized catalysts. From the exptl. results, the external mass transfer resistance can be ignored when the agitation speed exceeds 350 rpm. The apparent **reaction** rate increases with decreasing catalyst particle size, exhibiting the overall **reaction** controlled by both internal diffusion and intrinsic organic **reaction**. The activity of macroporous catalyst is found better than that of microporous one for the same degree of crosslinking of the support, revealing that the **reaction** rate was influenced by the structure of the catalyst significantly. Increasing the degree of crosslinking of the support leads to the reduction of solvent swelling and the contact of reactants due to the more rigid network of the support. The order of activity for different active sites of macroporous catalyst was tri-Bu amine > tri-Et amine  $\approx$  trioctyl amine. The apparent activation energies were also estimated from the results at different **reaction** temps. The catalytic activity was gradually reduced, however, within 5% for recovered catalyst, demonstrating the satisfactory stability of the catalyst. The kinetic model for triphase catalysis was also set up and the pseudo-first-order **reaction** was applied to describe the etherification successfully. The present study can be used as the basis for designing the etherification **reaction** process.

L12 ANSWER 8 OF 52 CAPLUS COPYRIGHT 2005 ACS on STN

TI Kinetics of etherification of ethyl 2-bromoisobutyrate via solid/liquid phase transfer catalysis

AN 1998:749013 CAPLUS

DN 130:66090

TI Kinetics of etherification of ethyl 2-bromoisobutyrate via solid/liquid phase transfer catalysis

AU Yang, Hung-Ming; Chen, Tsan-Ming

CS Department of Chemical Engineering, National Chung-Hsing University, Taichung, 402, Taiwan

SO Journal of the Chinese Institute of Chemical Engineers (1998), 29(5), 367-374

CODEN: JCICAP; ISSN: 0368-1653

PB Chinese Institute of Chemical Engineers

DT Journal

LA English

AB Phase transfer catalyzed **reactions** such as esterification, hydrolysis, and halide exchange were reported to conduct successfully in **solid-liquid** phase transfer catalysis (SLPTC). In the present work, the kinetics for synthesizing **ether-esters** from the etherification of Et 2-bromoisobutyrate under **solid-liquid** phase transfer conditions was investigated. The **reaction** was carried out in a stirred batch reactor with isothermal jacket, using potassium 4-benzyloxyphenoxide as the solid reactant. The potassium **salt** was prepared from deprotonation of 4-benzyloxyphenol with potassium hydroxide in aqueous solution. Using the **solid/liquid** system, the usual hydrolysis of **ester** compds. in alkali aqueous/organic phases can be prevented under anhydrous conditions. High conversion of etherification of Et 2-bromoisobutyrate in organic solvent can be obtained. The exptl. data were described by pseudo-first-order kinetics. Various quaternary 'onium **salts** were employed to compare their efficiencies for etherification. Effects of agitation speed, **reaction** temperature, organic solvent and small quantities of water addition were explored to find the optimal operating conditions. From the exptl. results, the **reaction** rates are not influenced by the stirring speed when the agitation speed exceeds 350 rpm. The **reaction** rate increases with increasing the polarity of solvent. The temperature effects as well as the activation energy for various phase transfer catalysts were investigated. The activation energy for TBAB was calculated to be 15.2 Kcal/mol. Small quantities of water addition

can

also enhance the reactivity of catalyst.

RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d cost

COST IN U.S. DOLLARS

	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	8.19	8.71
NETWORK CHARGES	1.26	1.38
SEARCH CHARGES	18.90	18.90
DISPLAY CHARGES	48.44	48.44
	-----	-----
FULL ESTIMATED COST	76.79	77.43

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-8.76	-8.76

IN FILE 'CAPLUS' AT 07:37:45 ON 10 JUN 2005

=> d his

(FILE 'HOME' ENTERED AT 07:24:59 ON 10 JUN 2005)

FILE 'REGISTRY' ENTERED AT 07:25:10 ON 10 JUN 2005

FILE 'CAPLUS' ENTERED AT 07:25:16 ON 10 JUN 2005

L1 27615 SOLID LIQUID  
L2 20709 LIQUID SOLID  
L3 43992 L1 OR L2  
L4 3753322 REACTION  
L5 4694 L3(L)L4  
L6 1199985 ETHER OR ESTER

L7 24236 ACID ANHYDRIDE  
L8 1214708 L6 OR L7  
L9 323 L8 AND L5  
L10 215 L8(L)L5  
L11 1102160 SALT  
L12 52 L10 AND L11

=> williamson

L13 1323 WILLIAMSON

=> l3 and l13

L14 18 L3 AND L13

=> d l14 10-18 ti

L14 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Crosslinked poly(N-vinylpyrrolidone) as solid cosolvent

L14 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Solvating effect of copolymers of styrene with a poly(oxyethylene) chain macromer. Effect of the polymer support

L14 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Optimization of polymer-supported oligoethers as **solid-liquid** phase transfer catalysts

L14 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Block ethylene oxide-styrene copolymers as **solid-liquid** phase transfer catalysts

L14 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Nonsupported and resin-supported oligo(oxyethylenes) as **solid-liquid** phase-transfer catalysts. Effect of chain length and head-group

L14 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Mechanism of **solid-liquid** phase transfer catalysis by polymer-supported linear polyethers

L14 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Linear polymers and block copolymers as **solid-liquid** phase transfer catalysts

L14 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Reactions of organic anions. 86. Sodium and potassium carbonates: efficient strong bases in **solid-liquid** two-phase systems

L14 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Strychnine alkaloids. XXXVIII. Degradation of quaternary salts of vomicine and desoxyvomicine

=> d l14 17 ti fbib abs

L14 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Reactions of organic anions. 86. Sodium and potassium carbonates: efficient strong bases in **solid-liquid** two-phase systems

AN 1979:21676 CAPLUS

DN 90:21676

TI Reactions of organic anions. 86. Sodium and potassium carbonates: efficient strong bases in **solid-liquid** two-phase

systems  
 AU Fedorynski, Michal; Wojciechowski, Krzysztof; Matacz, Zygmunt; Makosza, Mieczyslaw  
 CS Inst. Org. Chem. Technol., Tech. Univ. Warsaw, Warsaw, Pol.  
 SO Journal of Organic Chemistry (1978), 43(24), 4682-4  
 CODEN: JOCEAH; ISSN: 0022-3263  
 DT Journal  
 LA English  
 AB Anhydrous K<sub>2</sub>CO<sub>3</sub> and Na<sub>2</sub>CO<sub>3</sub> in the presence of tetraalkylammonium salts or crown ethers were efficient strong bases for the generation and reactions of carbanions. The following reactions were accomplished: (1) alkylation of di-Et malonate, Me cyanoacetate, and Et acetoacetate; (2) alkylation and nitroarylation of 9-substituted fluorenes and diphenylacetaldehyde; (3) alkylation of phenylacetonitrile; (4) acylation of 2-phenylalkanenitrile; (5) Michaelis-Becker alkylation of di-Et phosphate; (6) Darzens condensation; (7) dibromocarbene generation; (8) **Williamson** ether synthesis.

=> d 114 1-9 ti

L14 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Synthesis and properties of amphiphilic copolymers of butyl acrylate and methyl methacrylate with uniform polyoxyethylene grafts

L14 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Method for carrying out a **solid-liquid** reaction

L14 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Quantum simulations of **solids, liquids**, and nanostructures

L14 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Synthesis of phenolic ethers in heterogeneous media: **solid-liquid**, liquid-liquid or in the presence of microwaves

L14 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Selective etherification of hydroxylated polyoxyalkylenes in the absence of solvent

L14 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Characteristics of multiblock styrene-butadiene-oxyethylene copolymers containing polyoxyethylene

L14 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI A novel procedure for the synthesis of ether-bridged perfluoro non-ionic surfactants

L14 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Improved and simplified synthesis of aryl ethers by alkylation of phenolate ions. **Solid-liquid** phase-transfer catalysis in the absence of organic solvents

L14 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy-cyclohexanol

=> d 114 2,4,5,8,9 ti fbib abs

L14 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Method for carrying out a **solid-liquid** reaction  
 AN 2003:202537 CAPLUS



DN 138:223603  
 TI Method for carrying out a **solid-liquid** reaction  
 IN Klopp, Ingo; Bogenstaetter, Thomas; Franke, Dirk; Munzinger, Manfred  
 PA Basf Aktiengesellschaft, Germany  
 SO PCT Int. Appl., 17 pp.  
 CODEN: PIXXD2  
 DT Patent  
 LA German  
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003020411	A1	20030313	WO 2002-EP9659	20020829
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	DE 10142284	A1	20030320	DE 2001-10142284	A 20010829
	TW 592829	B	20040621	DE 2001-10142284	20010829
				TW 2002-91119416	20020827
				DE 2001-10142284	A 20010829
	CA 2458812	AA	20030313	CA 2002-2458812	20020829
				DE 2001-10142284	A 20010829
	EP 1423187	A1	20040602	WO 2002-EP9659	W 20020829
	EP 1423187	B1	20050302	EP 2002-767452	20020829
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829
	BR 2002012168	A	20040720	BR 2002-12168	20020829
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829
	NZ 531344	A	20041029	NZ 2002-531344	20020829
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829
	JP 2005501695	T2	20050120	JP 2003-524713	20020829
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829
	AT 289864	E	20050315	AT 2002-767452	20020829
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829
	US 2004204605	A1	20041014	US 2004-487214	20040219
				DE 2001-10142284	A 20010829
				WO 2002-EP9659	W 20020829

AB A **solid-liquid** reaction is carried by (1) preparation of a reaction suspension containing a 1st reactant which is suspended and a 2nd reactant which is dissolved in a suspension medium, whereby 1 of the reaction products is insol. in the suspension medium, (2) feeding the reaction suspension through a longish reaction zone, whereby the Reynolds number of the flow <20,000, and (3) separation of the insol. reaction product. The method is advantageous in that the insol. reaction product is obtained in a form which is easy to filter. The method is especially suitable for manufacture

of (PhCO<sub>2</sub>)<sub>3</sub>P by reacting PhCO<sub>2</sub>Na or PhCO<sub>2</sub>NH<sub>4</sub> with PCl<sub>3</sub>.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Synthesis of phenolic ethers in heterogeneous media: **solid-liquid**, liquid-liquid or in the presence of microwaves  
 AN 1998:636409 CAPLUS  
 DN 129:316001  
 TI Synthesis of phenolic ethers in heterogeneous media: **solid-liquid**, liquid-liquid or in the presence of microwaves  
 AU Bratulescu, George; Le Bigot, Yves; Delmas, Michel; Pogany, Iuliu  
 CS Unite Recherche:Fibres, Energie, Biomonomeres, Institut National Polytechnique Toulouse, Ecole Nationale Supérieure Chimie, Toulouse, 31077, Fr.  
 SO Revue Roumaine de Chimie (1998), 43(4), 321-326  
 CODEN: RRCHAX; ISSN: 0035-3930  
 PB Editura Academiei Romane  
 DT Journal  
 LA French  
 AB RC6H4CH2OC6H4R1 [R = 4-Cl, 2-Cl, 4-Br, 4-F, 4-Me, H; R1 = H, 3-Me, 2-Me, 4-Me, 4-NO2] were obtained in excellent yields by **Williamson** reaction of RC6H4CH2Cl with HOC6H4R1 in a heterogeneous medium, i.e., using K2CO3 in a solvent or using aqueous KOH and Aliquat 336 as phase transfer catalyst or aqueous KOH and microwave heating.  
 RE.CNT 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Selective etherification of hydroxylated polyoxyalkylenes in the absence of solvent  
 AN 1996:376451 CAPLUS  
 DN 125:59332  
 TI Selective etherification of hydroxylated polyoxyalkylenes in the absence of solvent  
 AU Abribat, B.; Le Bigot, Y.; Gaset, A.  
 CS Lab. Chimie Agro-Industrielle, Toulouse, 31077, Fr.  
 SO Tetrahedron (1996), 52(24), 8245-8256  
 CODEN: TETRAB; ISSN: 0040-4020  
 PB Elsevier  
 DT Journal  
 LA French  
 AB The **Williamson** reaction, realized in a biphasic **solid/liquid**, slightly hydrated medium, allows the selective transformation of primary or secondary polyoxyalkylenes alc. functions, under simple and economical conditions: no solvent and ambient temperature The use of KOH catalyst for dialkylation of polypropylene glycol employing various alkyl halides is illustrated.

L14 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Improved and simplified synthesis of aryl ethers by alkylation of phenolate ions. **Solid-liquid** phase-transfer catalysis in the absence of organic solvents  
 AN 1988:509936 CAPLUS  
 DN 109:109936  
 TI Improved and simplified synthesis of aryl ethers by alkylation of phenolate ions. **Solid-liquid** phase-transfer catalysis in the absence of organic solvents  
 AU Loupy, Andre; Sansoulet, Jean; Vaziri-Zand, Farchid  
 CS Lab. React. Select. Supports, Univ. Paris-Sud, Orsay, 91405, Fr.  
 SO Bulletin de la Societe Chimique de France (1987), (6), 1027-35  
 CODEN: BSCFAS; ISSN: 0037-8968  
 DT Journal  
 LA French  
 OS CASREACT 109:109936  
 AB Aryl ethers are obtained in excellent yields under mild and economical

conditions in the absence of organic solvents by the reaction of stoichiometric amts. of phenols, finely ground KOH, and alkyl bromides in the presence of 2% Aliquat 336. E.g., p-MeCOC6H4OH reacts with Me(CH2)7Br under these conditions to give 97% p-MeCOC6H4O(CH2)7Me.

L14 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy cyclohexanol  
 AN 1986:442606 CAPLUS  
 DN 105:42606  
 TI Phase-transfer reaction conditions in the synthesis of amino ether derivatives of trans-2-phenoxy cyclohexanol  
 AU Depreux, P.; Marcincal-Lefebvre, A.  
 CS Lab. Chim. Org., Fac. Pharm. Lille, Lille, 59045, Fr.  
 SO Canadian Journal of Chemistry (1986), 64(3), 626-32  
 CODEN: CJCHAG; ISSN: 0008-4042  
 DT Journal  
 LA French  
 OS CASREACT 105:42606  
 AB Amino ethers of trans-2-phenoxy cyclohexanol were prepared by methods involving anhydrous conditions (sodium alkoxides in xylene) or phase transfer catalysis (PTC) conditions (liquid-liquid or **solid-liquid** two-phase systems). In the liquid-liquid two-phase system, when no catalyst was added, the reaction proceeds with comparable or even better yields than with some PTC catalysts, a quaternary salt being formed in situ. The deprotonation of the alc. takes place at the interface, since there was no OH- extraction in organic medium and the yield depends on the stirring speed.  
 In the presence of aliquat, the yield does not change with the organic concentration of the catalyst. Statistical correlations obtained between the variations in yield and several other parameters were good.

=> d cost

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
CONNECT CHARGES	14.43	14.95
NETWORK CHARGES	2.22	2.34
SEARCH CHARGES	20.79	20.79
DISPLAY CHARGES	70.10	70.10
	-----	-----
FULL ESTIMATED COST	107.54	108.18

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

IN FILE 'CAPLUS' AT 07:47:16 ON 10 JUN 2005

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	109.34	109.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

SESSION WILL BE HELD FOR 60 MINUTES  
 STN INTERNATIONAL SESSION SUSPENDED AT 07:49:46 ON 10 JUN 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 08:32:46 ON 10 JUN 2005  
FILE 'CAPLUS' ENTERED AT 08:32:46 ON 10 JUN 2005  
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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	109.34	109.98
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

=> d his

(FILE 'HOME' ENTERED AT 07:24:59 ON 10 JUN 2005)

FILE 'REGISTRY' ENTERED AT 07:25:10 ON 10 JUN 2005

FILE 'CAPLUS' ENTERED AT 07:25:16 ON 10 JUN 2005

L1 27615 SOLID LIQUID  
L2 20709 LIQUID SOLID  
L3 43992 L1 OR L2  
L4 3753322 REACTION  
L5 4694 L3(L)L4  
L6 1199985 ETHER OR ESTER  
L7 24236 ACID ANHYDRIDE  
L8 1214708 L6 OR L7  
L9 323 L8 AND L5  
L10 215 L8(L)L5  
L11 1102160 SALT  
L12 52 L10 AND L11  
L13 1323 WILLIAMSON  
L14 18 L3 AND L13

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	110.24	110.88
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 08:33:49 ON 10 JUN 2005

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1623PAZ

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'CAPLUS' AT 08:37:59 ON 10 JUN 2005  
FILE 'CAPLUS' ENTERED AT 08:37:59 ON 10 JUN 2005  
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	110.24	110.88
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

=> d his

(FILE 'HOME' ENTERED AT 07:24:59 ON 10 JUN 2005)

FILE 'REGISTRY' ENTERED AT 07:25:10 ON 10 JUN 2005

FILE 'CAPLUS' ENTERED AT 07:25:16 ON 10 JUN 2005

L1 27615 SOLID LIQUID  
L2 20709 LIQUID SOLID  
L3 43992 L1 OR L2  
L4 3753322 REACTION  
L5 4694 L3(L)L4  
L6 1199985 ETHER OR ESTER  
L7 24236 ACID ANHYDRIDE  
L8 1214708 L6 OR L7  
L9 323 L8 AND L5  
L10 215 L8(L)L5  
L11 1102160 SALT  
L12 52 L10 AND L11  
L13 1323 WILLIAMSON  
L14 18 L3 AND L13

=> cake

33594 CAKE  
8469 CAKES  
L15 37917 CAKE  
(CAKE OR CAKES)

=> 15 and 115

L16 49 L5 AND L15

=> d 116 39-49

L16 ANSWER 39 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
AN 1975:75831 CAPLUS  
DN 82:75831  
TI One-stage ammonia leaching of molybdic acid  
AU Gizatulina, R. A.; Bershitskii, A. A.; Khavskii, N. N.; Kal'kov, A. A.;  
Shmalei, B. N.; Zakarchevnyi, D. I.  
CS USSR  
SO Sbornik - Moskovskii Institut Stali i Splavov (1974), 77, 75-8  
CODEN: SMSSAK; ISSN: 0371-1242  
DT Journal  
LA Russian

L16 ANSWER 40 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1972:45678 CAPLUS  
 DN 76:45678  
 TI Oxalic acid. IV. Decomposition of calcium oxalate with sulfuric acid  
 AU Sasaki, Eiichi  
 CS Ofuna Tech. Serv. Lab., Mitsui Toatsu Chem. Inc., Yokohama, Japan  
 SO Kogyo Kagaku Zasshi (1971), 74(12), 2426-9  
 CODEN: KGKZA7; ISSN: 0368-5462  
 DT Journal  
 LA Japanese

L16 ANSWER 41 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1972:5765 CAPLUS  
 DN 76:5765  
 TI Mechanism of alkali reaction with bauxite charge components  
 AU Feshchenko, Z. I.; Skobeev, I. K.; Kuz'mina, G. V.  
 CS USSR  
 SO Obogashch. Met. Polez. Iskop. (1970) 75-6  
 From: Ref. Zh., Met. 1971, Abstr. No. 4G145  
 DT Journal  
 LA Russian

L16 ANSWER 42 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1971:114670 CAPLUS  
 DN 74:114670  
 TI Behavior of niobium and tantalum under alkaline decomposition of zirconopyrochlore concentrate  
 AU Fedoryako, L. I.; Sheka, I. A.; Bogushevskaya, R. P.  
 CS USSR  
 SO Fiz.-Khim. Osn. Razlozh. Alyumosilikat. Gidrokhim. Metod. (1969) 154-9  
 From: Ref. Zh., Met. 1969, Abstr. No. 11G245  
 DT Journal  
 LA Russian

L16 ANSWER 43 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1969:117231 CAPLUS  
 DN 70:117231  
 TI Alkaline processing of some uranium ores  
 AU Bunus, Fl.; Matei, Ilie; Sporea, V.  
 SO Revistade Chimie (Bucharest, Romania) (1969), 20(1), 19-24  
 CODEN: RCBUAU; ISSN: 0034-7752  
 DT Journal  
 LA Romanian

L16 ANSWER 44 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1967:413999 CAPLUS  
 DN 67:13999  
 TI Pilot-plant tests of chlorine-soda leaching of low-grade molybdenum-bearing products  
 AU Khryashchev, S. V.; Kozlovskaya, E. M.  
 SO Tsvetnye Metally (Moscow, Russian Federation) (1967), 40(2), 13-16  
 CODEN: TVMTAX; ISSN: 0372-2929  
 DT Journal  
 LA Russian

L16 ANSWER 45 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN  
 AN 1966:73909 CAPLUS  
 DN 64:73909  
 OREF 64:13816c-e  
 TI Formation of a new technology of production of antimony and its compounds  
 AU Batyuk, A. G.; Valiulin, R. G.; Lobanov, V. A.; Pak, N. T.  
 SO Khim. i Tekhnol. Sur'my, Akad. Nauk Kirg. SSR, Inst. Neorgan. i Fiz., Khim. (1965) 107-26  
 DT Journal

LA Russian

L16 ANSWER 46 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1964:400487 CAPLUS

DN 61:487

OREF 61:72b-c

TI Oxidation of cobalt with black nickel hydroxides in the process of  
reprecipitation of cobalt-nickel **cakes**

AU Gran, T. V.

SO Zhurnal Prikladnoi Khimii (Sankt-Peterburg, Russian Federation) (1964),  
37(3); 487-92

CODEN: ZPKHAB; ISSN: 0044-4618

DT Journal

LA Unavailable

L16 ANSWER 47 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1954:34402 CAPLUS

DN 48:34402

OREF 48:6150a-b

TI Solid surface-active agents

IN Birch, Stanley F.; Harbourn, Charles L. A.; Desty, Dennis H.

PA Anglo-Iranian Oil Co. Ltd.

DT Patent

LA Unavailable

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	GB 697315		19530923	GB	

L16 ANSWER 48 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1947:25428 CAPLUS

DN 41:25428

OREF 41:5067a-h

TI Treatment of polymetallic ores and concentrates by the sulfatization  
method

AU Gromov, B. V.; Derkachev, D. I.

SO Tsvetnye Metally (Moscow, Russian Federation) (1947), 20(No. 1), 27-39

CODEN: TVMTAX; ISSN: 0372-2929

DT Journal

LA Unavailable

L16 ANSWER 49 OF 49 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1915:11454 CAPLUS

DN 9:11454

OREF 9:1811d-h

TI Investigations on fatty fruits and seeds of our (German) colonies. IV.  
Canarium polyphyllum

AU Wagner, H.; Lampart, B.

CS Duisberg

SO Zeitschrift fuer Untersuchung der Nahrungs- und Genussmittel sowie der  
Gebrauchsgegenstaende (1915), 29, 105-11

CODEN: ZNGEA2; ISSN: 0372-9419

DT Journal

LA Unavailable

=> 18 and 116

L17 3 L8 AND L16

=> d 117 1-3 ti

L17 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN

TI Preparation of di-methyl trans-1,4-cyclohexanedicarboxylate

L17 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Purification of naphthalenedicarboxylic acid dialkyl esters

L17 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Solid surface-active agents

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	126.99	127.63

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-13.14	-13.14

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NEWS	13	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	14	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	15	APR 04	EMBASE - Database reloaded and enhanced
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NEWS	17	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAPLUS and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	18	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAPLUS
NEWS	19	MAY 23	GBFULL enhanced with patent drawing images
NEWS	20	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
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NEWS	22	JUN 06	STN Patent Forums to be held in June 2005
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NEWS INTER			General Internet Information
NEWS LOGIN			Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 10:38:05 ON 10 JUN 2005

=> logoff hold

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

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FILE 'HOME' ENTERED AT 10:38:52 ON 10 JUN 2005

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:39:04 ON 10 JUN 2005

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FILE COVERS 1907 - 10 Jun 2005 VOL 142 ISS 25

FILE LAST UPDATED: 9 Jun 2005 (20050609/ED)

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=> column(1) derivatization

382821 COLUMN

99435 COLUMNS

431756 COLUMN

(COLUMN OR COLUMNS)

22733 DERIVATIZATION

336 DERIVATIZATIONS

22932 DERIVATIZATION  
(DERIVATIZATION OR DERIVATIZATIONS)  
L1 5953 COLUMN(L) DERIVATIZATION

=> ether or ester

461819 ETHER  
141927 ETHERS  
520226 ETHER  
(ETHER OR ETHERS)  
562068 ESTER  
419051 ESTERS  
784851 ESTER  
(ESTER OR ESTERS)

L2 1199985 ETHER OR ESTER

=> l1 and l2

L3 732 L1 AND L2

=> liquid solid or solid liquid

684284 LIQUID  
122774 LIQUIDS  
777118 LIQUID  
(LIQUID OR LIQUIDS)  
953591 LIQ  
90892 LIQS  
988991 LIQ  
(LIQ OR LIQS)  
1369240 LIQUID  
(LIQUID OR LIQ)  
963770 SOLID  
273646 SOLIDS  
1165923 SOLID  
(SOLID OR SOLIDS)  
20709 LIQUID SOLID  
(LIQUID(W) SOLID)  
963770 SOLID  
273646 SOLIDS  
1165923 SOLID  
(SOLID OR SOLIDS)  
684284 LIQUID  
122774 LIQUIDS  
777118 LIQUID  
(LIQUID OR LIQUIDS)  
953591 LIQ  
90892 LIQS  
988991 LIQ  
(LIQ OR LIQS)  
1369240 LIQUID  
(LIQUID OR LIQ)  
27615 SOLID LIQUID  
(SOLID(W) LIQUID)

L4 43992 LIQUID SOLID OR SOLID LIQUID

=> l3 and l4

L5 4 L3 AND L4

=> d l5 1-4 ti

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Fatty acid derivatives as potential phase change materials

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Solid-phase derivatization reactions for biomedical liquid chromatography

L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Chromatographic determination of bile acids in biological fluids with sensitive and selective detection

L5 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Enantiospecific high-performance liquid chromatographic (HPLC) determination of baclofen and its fluoro analog in biological material

=> d 15 2 ti fbib abs

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Solid-phase derivatization reactions for biomedical liquid chromatography  
 AN 1994:649981 CAPLUS  
 DN 121:249981  
 TI Solid-phase derivatization reactions for biomedical liquid chromatography  
 AU Krull, I. S.; Szulc, M. E.; Bourque, A. J.; Zhou, F.-X.; Yu, J.; Strong, R.  
 CS Department of Chemistry, 102 Hurtig Building, Northeastern University, 360 Huntington Avenue, Boston, MA, 02115, USA  
 SO Journal of Chromatography, B: Biomedical Applications (1994), 659(1+2), 19-50  
 CODEN: JCBBEP; ISSN: 0378-4347  
 PB Elsevier  
 DT Journal; General Review  
 LA English  
 AB A review with 116 refs. Polymeric reagents have been developed for performing off- and online **derivatizations** of numerous organic analytes in HPLC-detection modes. Such reagents utilize ionic or covalent attachment of labile tags that possess specific detector enhancement properties: UV, electrochem., fluorescence, and so forth. Specific synthetic procedures have evolved to generate various linkages of the tag to the underlying, polymeric support, usually involving activated **ester** connections (leashes). The polymer itself may play a number of roles in the nature of the overall reactions, such as hydrophobic-hydrophilic exclusion, pore size restriction, stabilization of the attachment leashes, and protection of the tags from hydrolysis in aqueous media. The basic, underlying chemical of polymeric reagents has evolved to the point where it is possible to engineer the polymer support itself, the attachment leash, and the various tags that are then transferred to the analyte mols. These procedures have now reached the stage of commercialization and practical applicability for real-world drugs and bioorgs. in complex biofluid type samples. Polymer supported reagents can now be used for direct injection of biofluids with solid-phase (hydrophobic) extraction of the analytes of interest, followed by sample cleanup, **derivatization**, elution onto the HPLC **column**, peak compression, gradient HPLC elution, multiple detection, and final data interpretation with quantitation. This review summarizes much or most of what has been described in the scientific literature over the past decade in the various areas where polymeric reagents are being used for **derivatization** in HPLC and in capillary electrophoresis as well.

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	20.85	21.06
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

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FULL ESTIMATED COST	21.30	21.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	21.30	21.51

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

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\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:  
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> e tribenzoylphosphite/cn

E1	1	TRIBENZOYLPHOSPHIDE/CN
E2	1	TRIBENZOYLPHOSPHINE/CN
E3	0 -->	TRIBENZOYLPHOSPHITE/CN
E4	1	TRIBENZPORPHIN/CN
E5	1	TRIBENZYL (1.FWDARW.6)-A-GALACTAN/CN
E6	1	TRIBENZYL (1.FWDARW.6)-A-GLUCAN/CN
E7	1	TRIBENZYL (1.FWDARW.6)-A-MANNAN/CN
E8	1	TRIBENZYL 1,2,3-BUTANETRICARBOXYLATE/CN
E9	1	TRIBENZYL BORATE/CN
E10	1	TRIBENZYL CIS,CIS-1,3,5-TRIMETHYLCYCLOHEXANE-1,3,5-TRICARBOXYLATE/CN
E11	1	TRIBENZYL CITRATE/CN
E12	1	TRIBENZYL ISOCYANURATE/CN

=> e tribenzoyl phosphite/cn

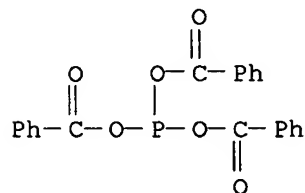
E1	1	TRIBENZOYL BORATE/CN
E2	1	TRIBENZOYL GLYCEROL ESTERASE/CN
E3	1 -->	TRIBENZOYL PHOSPHITE/CN
E4	1	TRIBENZOYL-A-L-RHAMNOPYRANOSYL BROMIDE/CN
E5	1	TRIBENZOYL-4,5-TRANS-EPOXYSPHINGOSINE/CN
E6	1	TRIBENZOYL-4-AMINOPHENOL/CN
E7	1	TRIBENZOYLCYCLOPROPANE/CN
E8	1	TRIBENZOYLENEBENZENE/CN
E9	1	TRIBENZOYLHYDRAZINE/CN
E10	1	TRIBENZOYLLLEVOGLUCOSAN/CN
E11	1	TRIBENZOYLMETHANE/CN
E12	1	TRIBENZOYLPHOSPHIDE/CN

=> e3

L6 1 "TRIBENZOYL PHOSPHITE"/CN

=> d 16

L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN  
 RN 54862-45-2 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN Benzoic acid, trianhydride with phosphorous acid (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Benzoic acid, anhydride with phosphorous acid (7CI)  
 OTHER NAMES:  
 CN **Tribenzoyl phosphite**  
 FS 3D CONCORD  
 MF C21 H15 O6 P  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)



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1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

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0 FILE  
0 CAPLUS  
L7 0 \FILE CAPLUS  
(FILE(W)CAPLUS)

=> file caplus

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=> 16/prep

8 L6  
3314614 PREP/RL  
L8 5 L6/PREP  
(L6 (L) PREP/RL)

=> d 18 1-5 ti

L8 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Method for producing ethers, esters or acid anhydrides especially for preparing tribenzoyl phosphite from ammonium benzoate and phosphorous chloride including separation of the ammonium chloride

L8 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
TI Method for carrying out a solid-liquid reaction

L8 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Method for producing  $\alpha$ -aminophosphonic acids by the reaction of  
 hexahydro triazine derivative with triorgano phosphate

L8 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Kinetics of the acetylation of arylamines in acetic acid in the presence  
 of phosphorus trichloride and triethylamine

L8 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2005 ACS on STN  
 TI Di- and tricarboxyphosphines

=> logoff hold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	6.19	44.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.73

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NEWS	16 APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/Capplus
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NEWS	18 MAY 23	REGISTRY has been enhanced with source information from